

Quantum Entanglement in Condensed Matter Systems

17–29 November 2008, a Workshop at

The Institute of Mathematical Sciences, Chennai 600 113

Entanglement is both the central theme and the principal resource in Quantum Information Science, a rapidly growing frontier area of research. The centre of activity in this field seems to be shifting more and more towards strongly correlated quantum condensed matter systems. Available indications point, if anything, only to an acceleration in this trend, giving potential advantage to those researchers with expertise in 'both' Quantum Information Theory 'and' Strongly Correlated Systems. This workshop will bring the experts in the two communities together for mutual learning and 'push' the frontiers together.

Organizers:

G. Baskaran, Sibasish Ghosh, R. Shankar and R. Simon

The Institute of Mathematical Sciences, Chennai 600 113, India

Active researchers (Ph.D. students and above) working or seriously planning to get into this field may write to: qit@imsc.res.in

Quantum Information and Quantum Matter

1–2 December 2008, a two-day Conference at

The Institute of Mathematical Sciences, Chennai 600 113

This is a third in the series of annual K S Krishnan Discussion Meetings on Frontiers in Quantum Science (FQS2008) being held at the Institute of Mathematical Sciences. There is a serious interplay between quantum information and quantum condensed matter. Some tough quantum theoretical and experimental issues have emerged while exploring realization of qubits, quantum computer, quantum cryptography, etc. Exciting current developments happening at the interface between these two fields, quantum information and strongly correlated quantum matter systems, will be presented at the conference by invited speakers from India and some from abroad.

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